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ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
5/15/2005	Vickram R Vathulya	PHUS020604	9444	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			LE, DINH THANH	
			PAPER NUMBER	
BRIARCLIFF MANOR, NY 10510				
	09/29/2006 TUAL PROPER	09/29/2006 TUAL PROPERTY & STANDARDS	75/15/2005 Vickram R Vathulya PHUS020604  09/29/2006 EXAM TUAL PROPERTY & STANDARDS  LE, DINH	

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
- Office Action Summary		10/538,573	VATHULYA ET AL.			
		Examiner	Art Unit			
		DINH T. LE	2816			
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet with	the correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailine and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTH: e, cause the application to become ABAN	TION.  y be timely filed  S from the mailing date of this communication.  DONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
<i>'</i> —		action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
. —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	. 4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) 1-8 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)□	The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance	. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s)	is objected to. See 37 CFR 1.121(d).			
11)[	The oath or declaration is objected to by the Ex	caminer. Note the attached C	office Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.						
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>					
	3. Copies of the certified copies of the prior	• •				
	application from the International Bureau	- <del>-</del>	solved in this reduction of age			
* S	ee the attached detailed Office action for a list	• • • •	ceived.			
Attachmen	(s)					
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview Sum	nmary (PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	fail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 6/15/05.  5) Notice of Informal Patent Application 6) Other:						

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**DETAILED ACTION** 

Abstract

The Abstract is objected to because it is not a single paragraph being contained in a

separate sheet as required. Correction is required.

Specification

The specification has been checked to the extent necessary to determine the presence of

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all possible minor errors. However, the applicant's cooperation is requested in correcting any

errors of which applicant may become aware in the specification.

Claim Rejections

Claim Rejections - 35 USC § 112

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention. Correction or clarification is required.

In claim 1, the description of the present invention is incomplete because the cell and the

resistor are not connected to anything and the claimed mixer does not have an input. Thus, the

claimed mixer may not perform the recited function. Also, it is unclear how the resistor can

apply a differential loading.

In claim 6, it is unclear how the cell and the resistor can be "operated". The same is true

for claims 7-8.

The remaining claims are dependent from the above rejected claims and therefore also

considered indefinite.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be

negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 USC 103 (a) as being unpatentable over Tanji et al (US

6,943,618).

Tanji et al discloses in Figure 5 a circuit comprising:

- a Gilbert cell (400);

- a resistor (432, 434);

- a first resistor (428), a second resistor (430); and

- a first current source (492) and a second current source (494).

However, Tanji et al does not disclose that the resistors are the polysilicon resistors. As

well known in the art, the resistor includes many types, i.e., low tolerance resistor or negative

coefficient resistor, and selecting the resistor for a particular environment or the particular

application in which the circuit of Tanji et al is to be used is considered to be a matter of a design

expedient for an engineer. Lacking of showing any criticality, it would have been obvious to a

person having skill in the art at the time the invention was made to select the polysilicon resistor

as claimed for the purpose of accommodating with the requirement of a predetermined system.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY CALLAHAN can be reached at (571) 272-1740.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

9/26/06